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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,480	09/09/2003	Motoki Kato	450100-4089.2	2047
7590 03/27/2008 FROMMER LAWRENCE & HAUG LLP 10TH FLOOR 745 FIFTH AVENUE NEW YORK, NY 10151				
EXAMINER CZEKAJ, DAVID J				
ART UNIT 2621		PAPER NUMBER		
MAIL DATE 03/27/2008		DELIVERY MODE PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

**Application No.**

10/658,480

**Applicant(s)**

KATO ET AL.

**Examiner**

DAVID CZEKAJ

**Art Unit**

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 19 December 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 7-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 7-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-946)
- 3) ☐ Information Disclosure Statement(s) (PTO/SE/US)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments with respect to claims 7-15 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 7 and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keesman et al. (5805224), (hereinafter referred to as "Keesman") in view of Parke (5748248).

Regarding claim 7, Keesman discloses an apparatus that relates to transcoding video signals (Keesman: column 1, lines 4-5). This apparatus comprises "separating the motion vector of a moving picture signal" (Keesman: figure 2; column 6, lines 60-63, wherein the motion compensation stage in the decoder separates the motion vector), "compressing the moving picture signal using the vector" (Keesman: figure 2, wherein the encoder performs the compressing), and "dequantizing a quantized motion vector in the separating step" (Keesman: figure 2, wherein the Q<sup>-1</sup> performs the dequantizing). However, this apparatus lacks the previously computed motion vector as claimed. Parke teaches that compressing a picture signal that is supplied with a motion vector

obtained in a prior compression of the picture signal, the motion vector being supplied with the previously expanded picture signal is the well known MPEG process of telescoping (Parke: column 13, line 60 – column 14, line 11). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to take the apparatus disclosed by Keesman and add the telescoping taught by Parke in order to obtain an apparatus that helps reduce the amount of video data by calculating motion vectors based on previous frames.

Regarding claim 12, note the examiners rejection for claim 7, and in addition Keesman discloses “receiving an expanded signal that had been produced by multiplexing an expanded moving picture signal with a motion vector that was used for the expansion of the signal” (Keesman: figure 2, wherein the decoder outputs the expanded picture signal), “separating the motion vector from the expanded signal” (Keesman: figure 2; column 6, lines 60-63, wherein the motion compensation stage in the decoder separates the motion vector), and “compressing the expanded signal using the motion vector” (Keesman: figure 2, wherein the encoder performs the compressing).

Regarding claim 13, note the examiners rejection for claim 12, and in addition Keesman discloses “detecting, from the expanded signal, a new motion vector in the neighborhood of the separated motion vector” (Keesman: figure 2; column 1, lines 27-50, wherein the motion compensator and motion estimator

determine the new vector) and "compressing the signal using the new vector" (Keesman: figure 2).

4. Claims 8-11 and 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keesman et al. (5805224), (hereinafter referred to as "Keesman") in view of Parke (5748248) in further view of Mizutani et al. (4979037), (hereinafter referred to as "Mizutani").

Regarding claim 8, note the examiners rejection for claim 7, and in addition, claim 8 differs from claim 7 in that claim 8 further comprises multiplexing the motion vector in a blanking portion of the signal. Mizutani teaches that determining a motion vector and multiplexing the vector in a blanking portion of a signal helps reduce multi-line blur (Mizutani: column 1, line 56 – column 2, line 5, wherein the blanking portion is the blanking period). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to implement the motion vector multiplexed in the blanking portion in order to help reduce the blur of a video signal.

Regarding claim 9, note the examiners rejection for claims 7, 8, and 12.

Regarding claim 10, note the examiners rejection for claim 9, and in addition Keesman discloses "quantizing the separated motion vector and multiplexing the vector of the expanded signal" (Keesman: figure 2).

Regarding claim 11, note the examiners rejection for claim 8.

Regarding claims 14-15, note the examiners rejection for claims 8 and 13.

### ***Conclusion***

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **DAVID CZEKAJ** whose telephone number is (571)272-7327. The examiner can normally be reached on Mon-Thurs and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571) 272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dave Czekaj/  
Examiner, Art Unit 2621

/Mehrdad Dastouri/  
Supervisory Patent Examiner, Art Unit 2621